

Purchase Order Receipt Listing

Wednesday, June 08, 2016 5:24:29 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO32595 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COPPOL Thyssenkrupp Materials CA Ltd											
PO32595	4		M303H0.500 f		6/9/2016	6/8/2016	12.0000	\$3.32	0.0000	0	\$39.82
CAD	No		303 HEX BAR .500 f ml134984		12.0000	PLOU01		\$39.82	0.0000	0	
	6		M304RO.375 f		6/9/2016	6/8/2016	24.0000	\$1.43	0.0000	0	\$34.33
	No		304 ROUND BAR .375 ml134984		24.0000	PLOU01		\$34.33	0.0000	0	
	7		M304RO.4375 f		6/9/2016	6/8/2016	12.0000	\$2.86	0.0000	0	\$34.33
	No		304 ROUND BAR .4375 ml134984		12.0000	PLOU01		\$34.33	0.0000	0	
	8		M304RO.750 f		6/9/2016	6/8/2016	24.0000	\$2.97	0.0000	0	\$71.40
	No		304 SS Roundbar .750 f ml134984		24.0000	PLOU01		\$71.40	0.0000	0	
	9		M6061T6B0.375X01. f		6/9/2016	6/8/2016	24.0000	\$0.80	0.0000	0	\$19.23
	No		6061T6 BAR .375 x 1.00 ml134984		24.0000	PLOU01		\$19.23	0.0000	0	
	10		M6061T6B0.500X05. f		6/9/2016	6/8/2016	24.0000	\$5.38	0.0000	0	\$129.07
	No		6061-T6 Bar .500 x 5.00 ml134984		24.0000	PLOU01		\$129.07	0.0000	0	
	11		M6061T6B0.500X10. f		6/9/2016	6/8/2016	24.0000	\$10.76	0.0000	0	\$258.13
	No		6061-T6 Bar .500 x 10.00 ml134984		24.0000	PLOU01		\$258.13	0.0000	0	

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO32595	12		M6061T6B0.750X01. f 500		6/9/2016	6/8/2016	12.0000	\$2.39	0.0000	0	\$28.68
CAD	No		6061-T6 Bar .750 X 1.50 m134984	f	12.0000	PLOU01		\$28.68	0.0000	0	
	13		M6061T6B0.750X02. f 000		6/9/2016	6/8/2016	12.0000	\$3.29	0.0000	0	\$39.44
No			6061-T6 Bar .750 x 2.00 m134984	f	12.0000	PLOU01		\$39.44	0.0000	0	
	14		M6061T6B1.000X04. f 000		6/9/2016	6/8/2016	24.0000	\$8.44	0.0000	0	\$202.56
No			6061-T6 Bar 1.00 x 4.00 m134984	f	24.0000	PLOU01		\$202.56	0.0000	0	
	15		M6061T6B1.500X02. f 500		6/9/2016	6/8/2016	12.0000	\$7.92	0.0000	0	\$95.01
No			6061-T6 Bar 1.50 x 2.50 m134984	f	12.0000	PLOU01		\$95.01	0.0000	0	
	16		M6061T6B30000X01 f .500		6/9/2016	6/8/2016	12.0000	\$9.41	0.0000	0	\$112.93
No			6061-T6 Bar 3.00 x 1.50 m134984	f	12.0000	PLOU01		\$112.93	0.0000	0	
Total Received Quantity:											216.0000
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$1,064.91
Total Balance Due Quantity:											0.0000

B I L L O F L A D I N G

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

8 June
No: PEC 994472
Ship Date 06 Jun 16 at 11:10 From PFW
Probill
Via VIM DELIVERY
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

① Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

✓ 1) Our Order PEC-935529- 1 Your PO # 32595
STAINLESS STEEL HEX BAR 303 STAINLESS
.50" HEX X 144.0000"

Heat Number
427290

Tag No
538679

Quantity PCS
12 FT 1

Wt LBS
9

MTR

✓ 2) Our Order PEC-935529- 2 Your PO # 32595
STAINLESS STEEL ROUND BAR 304L
.375" DIA X 144.0000"

Heat Number
X7D2

Tag No
538680

Quantity PCS
24 FT 2

Wt LBS
10

MTR

✓ 3) Our Order PEC-935529- 3 Your PO # 32595
STAINLESS STEEL ROUND BAR 304L
.437" DIA X 144.0000"

Heat Number
K8H5

Tag No
538681

Quantity PCS
12 FT 1

Wt LBS
6

MTR

✓ 4) Our Order PEC-935529- 4 Your PO # 32595
STAINLESS STEEL ROUND BAR 304L
.750" DIA X 144.0000"

Heat Number
010T

Tag No
538682

Quantity PCS
24 FT 2

Wt LBS
37

MTR

TOTAL: Tags 4 PCS 6 LBS 62

Heat Number
010T

*** Chemical Analysis ***

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

B I L L O F L A D I N G

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

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Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

427290
K8H5
X7D2

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 1 BDL GW. 68 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

***UNE SURCHARGE D'ENERGIE DE \$25.00

SERA AJOUTEE A CHAQUE COMMANDE.***

***POUR VOS BESOINS D'ACIER INOXYDABLE,

CONTACTEZ-NOUS. NOUS L'AVONS! TEL. 800-926-2600

Page: 2 Last

ALUMINIUM - LAITON - CUIVRE - PLASTIQUE - ACIER INOXYDABLE
ALUMINUM - BRASS - COPPER - PLASTICS - STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
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TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

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THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 994473
Ship Date 06Jun16 at 11:11 From PFW
Probill
Via VIM DELIVERY
FOB CONCORD
Frnt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
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Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-935536- 1 Your PO # 32595

ALUMINUM FLAT BAR 6061-T6511
.375" x 1.00" X 144.0000"

Heat Number
547391

Tag No
538664

Quantity
24 FT

PCS
2

Wt LBS
11

2) Our Order PEC-935536- 2 Your PO # 32595

ALUMINUM FLAT BAR 6061-T6511
.50" x 5.00" X 144.0000"

Heat Number
106742 2 1-A-1

Tag No
538665

Quantity
24 FT

PCS
2

Wt LBS
72

3) Our Order PEC-935536- 3 Your PO # 32595

ALUMINUM FLT BAR ECONOPLT 6061-T6511
.500" X 10.00" X 144.0000"

Heat Number
Z00191088

Tag No
538666

Quantity
24 FT

PCS
2

Wt LBS
140

4) Our Order PEC-935536- 4 Your PO # 32595

ALUMINUM FLAT BAR 6061-T6511
.750" X 1.50" X 144.0000"

Heat Number
Z00256099

Tag No
538667

Quantity
12 FT

PCS
1

Wt LBS
16

5) Our Order PEC-935536- 5 Your PO # 32595

ALUMINUM FLAT BAR 6061-T6511
.750" x 2.00" X 144.0000"

Heat Number
191717-4

Tag No
538668

Quantity
12 FT

PCS
1

Wt LBS
22

Page: 1Continued

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RAPPORTÉES IMMÉDIATEMENT.

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REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

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Ship From:
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Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

6) Our Order PEC-935536- 6 Your PO # 32595

ALUMINUM FLAT BAR 6061-T6511

1.00" x 4.00" X 144.0000"

Heat Number
191717-7

Tag No
538669

Quantity
24 FT

PCS
2

Wt LBS
113

7) Our Order PEC-935536- 7 Your PO # 32595

ALUMINUM FLAT BAR 6061-T6511

1.50" x 2.50" X 144.0000"

Heat Number
106741-3-1-A-1

Tag No
538670

Quantity
12 FT

PCS
1

Wt LBS
54

8) Our Order PEC-935536- 8 Your PO # 32595

ALUMINUM FLAT BAR 6061-T6511

1.50" x 3.00" X 144.0000"

Heat Number
191718-3

Tag No
538671

Quantity
12 FT

PCS
1

Wt LBS
64

TOTAL:

Tags
8

PCS
12

LBS
492

Heat Number

*** Chemical Analysis ***

106741-3-1-A-1

106742 2 1-A-1

191717-4

191717-7

191718-3

547391

Z00191088

Z00256099

SHIP WITH 935529 SUR-CHARGE ADDED

Page: 2Continued

ALUMINIUM • LAITON • CUIVRE • PLASTIQUE • ACIER INOX
ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
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DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

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TO SHIPPING.

ATTN: CHANTAL/LINDA

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** REFERENCED ON IT **

TOTAL 1 BDL GW. 496 LBS

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Page: 3 Last

ALUMINIUM • LAITON • CUIVRE • PLASTIQUE • ACIER INOX
ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
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REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL HEX BAR 303 STAINLESS
 .50" HEX X 144.0000"
 PART NO.

PO/Rel 32595

We certify that this is a true copy of the report
 furnished by the producer of the metal, or data
 resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-994472-001

6Jun16

Signed by: 

Pg 1/2

**Acciaierie
 Valbruna S.p.A.**



**CERTIFICATO DI COLLAUDO
 ABNAHMEPRUEFZEUGNIS
 INSPECTION CERTIFICATE
 CERTIFICAT DE RECEPTION
 EN 10204 (2004), 3.1**

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
 Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4
 Telephone number : 0039 (0) 444968211

Clients / Beneficiaries / Client
VALBRUNA CANADA LTD
 8724 HOLGATE CRESCENT
 L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
 Hersteller/Hersteller/Usine producente

Avviso di Spedizione: D-VI15014904
 Lintersage/Packing list BL

Ordine nr.: 412005083 Stock - Canada
 Bestell/Your order/Commande

Certificato nr.: MEST695568/2015/
 Prüfung/Test/Essai

Conferma ordine nr.: E14013171
 Vertrags/Order/Ref. nr.

Marchio di Fabbrica:
 Zeichen der Fabrikmarke
 Trade mark
 Marque de l'usine producente

Punzone del Collaudatore:
 Stempel des Werkstoffverständigen
 Inspector's Stamp/Plaqueon de l'essayeur



Stato di fornitura: Hot rolled - Annealed Cold Drawn
 Lieferzustand/Delivery state/Etat de livraison

Tipo di Elaborazione: E+AOD
 Endbearbeitungsart/Meining process/Mode elaboration

Specifiche:
 Anforderungen / Requirements / Exigences

YSI 0 303 HS A,CF
 AMS 5640 U TYPE 1 A
 ASTM A320 2011A B8F (1)
 MIL-S-862 B/1 303

AMS 303
 ASME SA320 2013 B8F (0)
 ASTM A370 2014
 QQ-S-764 B/2 303 A

AMS 5640 U S30300 A
 ASTM A314 2008 S30300
 ASTM A582 2012 S30300 A

(0) SECTION II PT. A 2013 EDITION
 (1) Chemical analysis only.

(0) Chemical analysis only.

DAS
 9
 9-89

Qualità: 303HS
 Werkstoff/Grade/Qualité

Marca: MV188ZHS
 Markenbezeichnung
 Marque/Qualité

Tolleranza: ASTM A484-14a TABLE 8
 Toleranz/Allowance/Tolérance

Punzonatura: 303HS
 Kennzeichnung/Marking/Marquage

Pos. nr. Pos. nr. N° de poste	Oggetto Gegenstand Procédé description Description du produit	Dimensioni - In Abmessungen Dimension	Lunghezza - In Länge Longueur	Colata Schmelze Vase Coulée	Pezzi Stückzahl Pièces	Peso - LB Gewicht Poids	Lotto nr. Losnr. Lot n°
0010	Hexagon	0,5000	144 / 150	427290		2.011	430107350

TEST ALLO STATO DI FORNITURA
 Test on delivery condition Prüfung auf lieferbarem Produkt test à l'état de fourniture Prueba sobre el material así como entregado

TEST	Provetta/Proveur Specimen/Échantillon Lap. diam. Ø 10mm Diam. Ø 10mm Lap. diam. Ø 10mm mm	° F	Pezzi Stückzahl Pièces	Snervamento Streckgrenze Yield Stress Limite élastique Rp 0,2% K.S.I.	Snervamento Zugfestigkeit Tensile strength Resistance à traction Rm K.S.I.	Resistenza Zugfestigkeit Tensile strength Resistance à traction Rm K.S.I.	Allungamento Streckdehnung Elongation Allongement E 4d %	Strizione Einknickung Reduction of area Striction %	Resistenza Zugfestigkeit Tensile strength Resistance à traction Rm K.S.I.	Durezza Härte Hardness Dureté HB
	Valori richiesti / Anforderungen/Requisits Valeurs requises	min max								140 255
A	12,5	68	L	85	112	40	49			254

TEST	min	max
A Grain size for ASTM E112		5

Mechanical properties according to ASTM A370.

1) L=longitudinal allung. T=transversale quer. D=transversale tangential

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / Schmelze/Qualité	min 0,030 max 0,050	0,20 1,00	1,50 2,00	17,00 19,00	0,50 1,00	8,00 10,00	0,100 0,32	0,4000							
427290	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	Zr %				
	0,034	0,34	1,76	17,27	0,47	0,62	8,06	0,094	0,031	0,34	0,0042				

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Micro and macro etch test: OK

Reduction ratio = 176,7 : 1

Annealing temperature: 1940°F for 1 h/water.

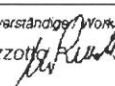
Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
 Die gestellten Anforderungen sind erfüllt
 The material has been furnished in accordance with the requirements
 Le matériel a été livré conforme aux exigences

Controllo antimiscelazione: OK
 Vermischungsprüfung: positiv/positiv durchgeföhrt
 Antimixing testing performed: OK
 Contrôle antimélange fait: s.s.

Controllo visivo e dimensionale: soddisfa le esigenze
 Beschauung und Ausmessung: ohne Beanstandung
 Visual inspection and dimensional checks satisfactory
 Contrôle visuel et dimensionnel: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination
 We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

Vicenza, 25/05/15 VOC/008 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkstoffverständigen / Works Inspector / L'agent d'usine M. Rizzotto 	Pagina - 1 di 2
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THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL HEX BAR 303 STAINLESS
.50" HEX X 144.0000"
PART NO.

PO/Rel 32595

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-994472-001

6Jun16

Signed by:

Pg 2/2

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Valbruna S.p.A.**



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Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4
Telephone number : 0039 (0) 444968211

Clienti / Besteller/Purchaser/Client
VALBRUNA CANADA LTD
8724 HOLLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Hersteller/producer

Stato di fornitura: Hot rolled - Annealed Cold Drawn
Lieferzustand/Delivery state/Etat de livraison

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI15014804
Lieferanweisung/Packing list B.L.

Ordine nr: 412005083 Stock - Canada
Bestell-/Your order/Commande

Tipo di Elaborazione: E+AOD
Erzeugnisart/Manufacturing process/Mode of elaboration

Certificato nr: MEST695568/2015/
Prüfung/Teil/Essai

Conferma ordine nr: E114013171
Werkz./Our Order/Ref nr

Marchio di Fabbrica:
Zeichen des Lieferanten/
Trade mark
Sigle de l'usine/producer

Punzone del Collaudatore:
Stempel des Werkstoffprüfbediensteten
Inspector's stamp/Emplacement de l'inspecteur



The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1, s. 4.3 by TÜV and LLOYD'S

Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

Maximal and/or Valplus grades/products are manufactured with ladle techniques to control composition, distribution, size and shape of non-metallic inclusions for improved machinability.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 25/05/15
VOC008
(MOD. MCE2)

Il collaudatore di stabilimento / der Werkstoffverständiger / Works inspector / L'agent d'usine
M. Rizzotto

Pagina - 2 di 2

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
STAINLESS STEEL ROUND BAR 304L
.437" DIA X 144.0000"
PART NO.

PO/Rel 32595

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-994472-003

6 Jun 16
Pg 1/1



6870 HIGHWAY 42 EAST

METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

Mail To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Ship To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Date: 1/29/2014 Page: 1

Steel: 304/304L

Finish: CD

Your Order: PEC254494

NAS order: PN 0035501 04

Corrosion: ASTM A262-10 Prac A/E OK

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
UNS 30400/30403 EN 10204 3.1, ASTM A484/13a
ASTM A276/10, ASTM A479/13a, ASTM A182/13 CHEM ONLY,
ASME SA479/10a, ASME SA182/10 CHEM ONLY
AMS-5639H, AMS 5647J, AMS QQS-763B, QQS-763F, ASTM F899/11
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8
ASTM A193/10A-ASME SA193/10 CL 1 GR B8

REMARKS:

COMPLIES W/REQUIREMENTS OF DEAR 252.225-7008 EU DIRECTIVE
2011/65/EU, ROHS, EAF+AOD+CC, NO WELD REPAIR, MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Shield #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BG0092 8		.4370		1.088	144.00	12	1	

CHEMICAL ANALYSIS CM(Country of Men) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/08

TEST	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
K8H5	US	.0157	.1455	18.0770	.4555	1.3485	.3535	.0767	8.5075	.0305
		S %	SI %							
		.0230	.3125							

MECHANICAL PROPERTIES

Product Id	1 d o l c r	HB	.2YS KSI	UTS KSI	RA %	ELONG % 2"
BG0092 8	R L	230.00	97.00	110.00	53.00	40.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy
of the test methods used, the material meets the specifications stated. These results relate only to the items
tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
STAINLESS STEEL ROUND BAR 304L
.375" DIA X 144.0000"
PART NO.

P.O./Ref 32595

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-994472-002

6 Jun 16
Pg 1/1



740 Imperial Road North

METALLURGICAL TEST REPORT

North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

Certificate: 138509 2

Customer: 007206 001

Mail To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Ship To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Date: 2/02/2016 Page: 1

Steel: 304/304L

Finish: CD

Your Order: PEC272925

NAS order: IN 0225573 02

Corrosion: ASTM A262-10 Ptac A/E OK

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
UNS 30400/30403 EN 10204 3.1, ASTM A484/13a
ASTM A276/13, ASTM A479/13a, ASTM A182/13 CHEM ONLY,
ASTM A479/13, ASME SA182/10 CHEM ONLY
AMS 5639H, AMS 5647J, AMS QQS-763C, QQS-763F, ASTM F899/11
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8
ASTM A193/10A-ASME SA193/10 CL 1 GR B8

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAR 252.325-7009 EU DIRECTIVE
2011/65/EU, ROHS, EAP+AD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BH7140 5		.3750		976	144.00	2	1	

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
X7D2	US	.0236	.1840	18.1635	.4105	1.3555	.3230	.0853	8.5020	.0290

S %	SI %
.0275	.3475

MECHANICAL PROPERTIES

Product Id	1 d o i c r	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 2"
BH7140 5	R L	209.0	92.24	109.80	69.76	42.23

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

[Signature]

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
STAINLESS STEEL ROUND BAR 304L
.750" DIA X 144.0000"
PART NO.

PO/Rel 32595

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-994472-004

6 Jun 16
Pg 1/1



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 183468 2 Mail To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Ship To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Date: 5/31/2016 Page: 1
Steel: 304/304L
Finish: CD

Your Order: PEC274556

NAS Order: PN 0066085 01

CORROSION: ASTM A262-10 PRAC A/E OK

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
UNS 30400/30403 EN 10204 3.1, ASTM A484/15
ASTM A276/15, ASTM A479/15, ASTM A182/13 CHEM ONLY,
ASME SA479/13, ASME SA182/10 CHEM ONLY
AMS 5639H, AMS 5647J, AMS QQS-763D, QQS-763F, ASTM F699/11
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8
ASTM A193/10A-ASME SA193/10 CL 1 GR B8

REMARKS:

COMPLIES W/REQUIREMENTS OF DEAR 252.225-7009 EU DIRECTIVE
2011/65/EU, ROHS, EAF+AOD+CC, NO WELD REPAIR, MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id Skid # Diameter Size Weight Length Mark Pieces Commodity Code

BH9759 3

.7500

1.059

144.00

12

1

CHEMICAL ANALYSIS

CM(Country of Mch)

ES(Spain)

US(United States)

ZA(South Africa)

JP(Japan)

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/14a

HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
010T	US	.0226	.1750	18.0295	.4320	1.4310	.2995	.0725	8.5145	.0270

S % SI %
.0275 .2480

MECHANICAL PROPERTIES

Product Id	1 d o 1 c f	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BH9759 3	R L	200.0	70.45	96.22	72.05	56.90

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
.375" x 1.00" X 144.0000"
PART NO.

PO/Rel 32595

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-994473-001

6Jun16

Signed by: 

Pg 1/1

Attn:



LB ALUMINIUM BERHAD
(138535-V)

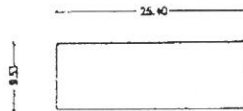


ALUMINIUM EXTRUSION

TEST CERTIFICATE

CUSTOMER : THYSSENKRUPP MATERIALS NA	SECTION NO. : PE01453MF03660	DATE : Sep-08-2015
SALES ORDER NO : 1563672	WORK ORDER : 547391	ALLOY : 6061-T6511
PRESS NO : 1101	EXTRUSION DATE : Aug-12-2015	CERTIFICATE NO. : MCERT1508401
CUSTOMER PO NO. : PEC-268749		

Section Sketch :



Thickness = 9.53 mm

CHEMICAL COMPOSITION

Composition	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Analysis Ref.-
Min	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00		77444
Max	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	Remainder	
Actual	0.707	0.225	0.173	0.110	1.001	0.048	0.016	0.011		Jul-29-2015

MECHANICAL PROPERTIES (Result shown is tested by LBALUM)

	Tensile Strength N/mm ²	Yield Stress N/mm ²	Elongation (%)
Standard	260	240	10
Result	270.03	256.24	16.97

Compliance with ASTM B221M-07

We hereby certify that the material covered by this report has been verified or tested according to the seller standard sampling method or the requirements of any specifications or requirements described here in, and that sample representative of the material met the composition limits and had the mechanical properties shown. Also, note that mercury is not a normal constituent in aluminum alloys. Neither mercury nor any of its compounds are used in the manufacture of our extrusion. This certificate conforms to 3.1, EN 10204.

** This certificate of Analysis has been produced electronically and is valid without signature **

Lot 11, Jalan Perusahaan 1, Kawasan Perusahaan Beranang, 43700 Beranang, Selangor Darul Ehsan, Malaysia.
Tel: 603-8723 8822 (15 Lines) Fax: 603-8723 3191 (General), 8723 7272 (Sales), 8727 1218 (Export)
Enquiry@lbalum.com.my www.lbalum.com

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511
.50" x 5.00" x 144.0000"
PART NO.

PO/Rel 32595

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-994473-002

6/11/16
Pg 1/1



Nanshan America
Advanced Aluminum Technologies
3600 US Hwy 52 South
Lafayette, Indiana 47909
Main Office: (765) 269-4360

CERTIFIED INSPECTION REPORT FOR EXTRUDED PRODUCTS

BILL TO 10038 - B01-ThyssenKrupp Materials NA, Toro	MANIFEST NUMBER 14264	DIE NUMBER 1488	DATE OF SHIPMENT 1/29/2016
SHIP TO 10038 - B01-ThyssenKrupp Materials NA, Toro	CUSTOMER PO PEC-271851	ALLOY 6061	TEMPER T6511
CUSTOMER PART NUMBER	NANSCHAN PART NUMBER 40-00896	DESCRIPTION Flat Bar .500" X 5.000" Stenciled	SALESMAN Scott Rarick

OUR ORDER NUMBER 106742	ITEM 2
----------------------------	-----------

Applicable Requirements:
ASTM B221-14/AMS-QQ-A-200/8 Rev A (2012-09) ASME SB221-1998 sect II

Melted in USA
Manufactured in USA

Mechanical Properties

Lot	Alloy	Test No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
406742 2 1A-1	6061	16010801	01/28/16	43.2	39.2	12%		

Chemical Limits

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Each	Total
6061	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
Minimum	0.80	0.70	0.40	0.15	1.20	0.35	0.05	0.25	0.15	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.15
Maximum																				

Density:

Electrical Conductivity:

Thermal Conductivity:

Alloy Constant:

Chemical Composition

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
1601025	6061	0.38	0.36	0.29	0.10	0.95	0.06	0.01	0.03	0.02	0.01	0.01	0.00							97.47	

Nanshan America hereby certifies that the material covered by this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Mercury is not a normal contaminant in aluminum alloys. All Material is ROHS Compliant. Neither mercury nor any of its compounds were utilized by Nanshan America in the manufacture of this material.

Material complies with FAR BAA (FAR 52.225-1, Buy American Act-Supplies), DFARS BAA (DFARS 252.225-7001 Buy American Act & Bal of Payments Progl), and FAR TAA (FAR 52.225-5 Trade Agreements) Temper T6511 meets T6 Requirements

Edward Vinarcik
Quality Manager

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
.750" X 1.50" X 144.0000"
PART NO.

PO/Rel 32595

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-994473-004

6Jun16

Signed by: 

Pg 1/1

KAISER
ALUMINUM
FABRICATED PRODUCTS

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CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-273675-9		CUSTOMER PART NUMBER: 376/STK		PRODUCT DESCRIPTION: .750 X 1.500 SC RECT BAR	
KAISER ORDER NUMBER: 6004148	LINE ITEM: 009	SHIP DATE: 03/15/2016	KAISER LOT NUMBER: Z00256099	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1524.000 LB	QUANTITY: 96.000 PCS	B/L NUMBER: 615069	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00256099	0001	0001	44.4	39.8	20.3	RE 91	N/A	N/A
Z00256099	0001	0002	43.7	38.9	15.9	RE 90	N/A	N/A
Z00256099	0001	0004	44.2	39.7	18.6	RE 90	N/A	N/A
Z00256099	0001	0005	43.8	39.1	18.6	RE 90	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.60	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
105987	.59	.27	.21	.10	.85	.07	.04	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00221777

Kaiser Order Number: 6004148

Line Item: 009

Page 1 of 1

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511
1.50" X 2.50" X 144.0000"
PART NO.

PO/Rel 32595

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-994473-007

6 Jun 16
Pg 1/1



Nanshan America
Advanced Aluminum Technologies
3600 US Hwy 52 South
Lafayette, Indiana 47909
Main Office: (765) 269-4360

CERTIFIED INSPECTION REPORT FOR EXTRUDED PRODUCTS

BILL TO	MANIFEST NUMBER	DATE OF SHIPMENT
10038 - B01-ThyssenKrupp Materials NA, Toro	14004	1/19/2016
SHIP TO	CUSTOMER PO	DATE OF SHIPMENT
10038 - B01-ThyssenKrupp Materials NA, Toro	PEC-271852	1/19/2016
CUSTOMER PART NUMBER	NANSHAN PART NUMBER	DESCRIPTION
	40-00731	Flat Bar 1.500" X 2.500", Stenciled

OUR ORDER NUMBER	ITEM
106741	3

Applicable Requirements:
ASTM B221-14 AWS-QQ-A-200/2 Rev A (2012-09) ASME SB221-1998 sect II

Melted in USA
Manufactured in USA

Mechanical Properties

Lot	DAS Alloy	Test No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
106741 3 1A-1	9-88 6061	16010433	01/18/16	48.9	44.5	17%		

Chemical Limits

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Ca	Each	Total
ALLOY 6061																				
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.05	0.25	0.15	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.15

Density:

Electrical Conductivity:

Thermal Conductivity:

Alloy Constant:

Chemical Composition

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Ca	Each	Al	Other
1601038	6061	0.70	0.28	0.30	0.10	0.90	0.06	0.01	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.59	0.00

Nanshan America hereby certifies that the material covered by this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Mercury is not a normal contaminant in aluminum alloys. All Material is ROHS Compliant. Neither mercury nor any of its compounds were utilized by Nanshan America in the manufacture of this material.

Material complies with FAR BAA (FAR 52.225-1, Buy American Act-Supplies), DFARS BAA (DFARS 252.225-7001 Buy American Act & Bal of

Edward W. Marick
Quality Manager

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
750" x 2.00" x 144.0000"
PART NO.

P.O./Ref 32595

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-994473-005

6/11/16
Pg 1/1



TEL: (416)745-4444 FAX: (416)745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST

BILL TO THYSSENKRUPP MATERIALS NA	CERT CODE: 9	DIE NUMBER S 22164	DATE OF SHIPMENT Apr/19/2016	EXTRUDEX ORDER NO. 191717 - 4	MANIFEST NO. 347464
SHIP TO THYSSENKRUPP MATERIALS NA	CUSTOMER PO PEC-274010	ALLOY 6061	SALESMAN FORBES DODWELL		
SO DESCRIPTION 750"x3.5" FB	CUSTOMER PART NUMBER 22164-S	PART DESCRIPTION 750"x3.5" FB			

CERTIFICATION
ASTM B221-14 - AMS QQA 200/8

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Apr/08/2016	39.60	36.60	13.10	83.0, 83.4, 83.2	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
16030232B	A.11	6061	0.53	0.18	0.22	0.03	0.8	0.08	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
Quality Control Manager

1 - CUSTOMER COPY

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLT BAR ECONOPLT 6061-T6511
.500" X 10.00" X 144.0000"
PART NO.

PO/Rel 32595

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-994473-003

6Jun16

Signed by: 

Pg 1/1

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-275442-3		CUSTOMER PART NUMBER: W60/STK		PRODUCT DESCRIPTION: .500 X 10.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 6009339	LINE ITEM: 003	SHIP DATE: 05/19/2016	KAISER LOT NUMBER: Z00191088	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 564.000 LB	QUANTITY: 8.000 PCS	B/L NUMBER: 615730	DIA/DIA/THICKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00191088	0001	0001	45.5	41.3	13.4	RE 95	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.30	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
105776	.63	.25	.25	.09	.35	.06	.05	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II (AMS-QQ-A-200/8A) UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: CC233139

Kaiser Order Number: 6009339

Line item: 003

THYSSENKRUPP MATERIALS NA

PO/Rel 32595

DART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511
1.00" x 4.00" x 144,0000"
PART NO.

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:



Certificate of Mill Test Results
BL PEC-994473-006
6 Jun 16
Pg 1/1



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST

BILL TO	THYSSENKRUPP MATERIALS,NA		CERT CODE:	9	DIE NUMBER	S	4657	DATE OF SHIPMENT	Apr/07/2016
SHIP TO	THYSSENKRUPP MATERIALS,NA		CUSTOMER PO	PEC-274010	ALLOY	6061	TEMPER	T6511	SALESMAN
SO DESCRIPTION	1"x4" FB		CUSTOMER PART NUMBER	4657-S	PART DESCRIPTION	1"x4" FB			
					FORBES DODWELL				

EXTRUDEX ORDER NO. 9999999999
491717 - 7
MADE IN CANADA
CERTIFICATION
ASTM B221-14f AMS QQA 200/8

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell E	Conductivity
A.12	6061	Apr/06/2016	43.50	40.50	13.40	89.6, 89.8, 89.3	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Ca	Al	Other
32149	A.12	6061	0.57	0.216	0.213	0.051	0.84	0.053		0.0055	0.0054											Remainder

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.



David Natale
Quality Control Manager

1 - CUSTOMER COPY

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061 T6511
1.50" x 3.00" x 144,0000"
PART NO.

PO/Rel 32595

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-99473-008

6 Jun 16
Pg 1/1



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

<http://www.extrudex.com>

MILL TEST

BILL TO	THYSSENKRUPP MATERIALS, NA	CERT CODE:	9	DIE NUMBER	S 4769	DATE OF SHIPMENT	Apr/07/2016	EXTRUDEX ORDER NO.	191718 - 3	MANIFEST NO.	9-89 346715
SHIP TO	THYSSENKRUPP MATERIALS, NA	CUSTOMER PO	PEC-274011	ALLOY	6061	TEMPER	T6511	SALESMAN	FORBES DODWELL		
SO DESCRIPTION	1.5"x3" FB	CUSTOMER PART NUMBER	4769-S	PART DESCRIPTION	1.5"x3" FB						

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell E	Conductivity
A.11	6061	Apr/06/2016	43.30	40.30	12.40	88.2, 88.6, 88.5	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
3B2167	A.11	6061	0.58	0.16	0.21	0.02	0.86	0.08	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	Remainder

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
Quality Control Manager

1 - CUSTOMER COPY

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B3.00x1.500

PO / BATCH NO.: P032595/M134984

DATE: 16-06-16

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 1.50

QUANTITY RECEIVED: 12'

THICKNESS RECEIVED: 1.50

QUANTITY INSPECTED: 12'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT MATERIAL	(Y) N	AMS-00-200/8
CORRECT REF # TO LINK CERT	(Y) N	191713-3
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
<p>INSPECTED BY: <u>DAS 9 2.80</u></p> <p>DATE: <u>16-06-16</u></p>	<p>SIGNED OFF BY: _____</p> <p>DATE: _____</p>

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B.750X2.00

PO / BATCH NO.: P032595/M134984

DATE: 16-06-16

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .750

QUANTITY RECEIVED: 12'

THICKNESS RECEIVED: .750

QUANTITY INSPECTED: 12'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL	(Y)	N	AMS-QQ-A-200
CORRECT REF # TO LINK CERT	(Y)	N	191717-4
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>16-06-16</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: AL6061T6B0750x1.500

PO / BATCH NO.: P03595/M134984

DATE: 16.06.16

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .750

QUANTITY RECEIVED: 12'

THICKNESS RECEIVED: .750

QUANTITY INSPECTED: 12'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT MATERIAL	(Y) N	AMS-QQ-A-200
CORRECT REF # TO LINK CERT	(Y) N	200256099
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 9</u> DATE: <u>16.06.16</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: AL6061 T6 30.375 x 1.20
 DATE: 16-06-16

PO / BATCH NO.: 1032595 / M134984

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24 ft
 QUANTITY INSPECTED: 24 ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .375
 THICKNESS RECEIVED: .375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	ASTM A221
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	547391
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 9</u> DATE: <u>16-06-16</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M3490.4375
 DATE: 1606.16

PO / BATCH NO.: PO32595 / M34984

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .4375
 THICKNESS RECEIVED: .437
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT MATERIAL	(Y) N	ASTM A276 / 10
CORRECT REF # TO LINK CERT	(Y) N	KRHS
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9-89</u> DATE: <u>16-06-16</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304L0.750
 DATE: 16.06.16

PO / BATCH NO.: P032595/M134984

MATERIAL CERT REC'D: Y03
 QUANTITY RECEIVED: 24 Ft
 QUANTITY INSPECTED: 24 Ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750
 THICKNESS RECEIVED: .750
 SHEET SIZE ORDERED: U/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT MATERIAL	(Y) N	45TM276
CORRECT REF # TO LINK CERT	(Y) N	Q10T
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>9</u> DATE: <u>16.06.16</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304/0.375

PO / BATCH NO.: 032595/M134984

DATE: 16-06-16

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 0.375

QUANTITY RECEIVED: 24 Ft

THICKNESS RECEIVED: .375

QUANTITY INSPECTED: 24 Ft

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	ASTM A276
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	2702
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>9</u> DATE: <u>16-06-16</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303H0.500

PO / BATCH NO.: P032595/M134934

DATE: 16.06.16

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .500

QUANTITY RECEIVED: 12'

THICKNESS RECEIVED: .500

QUANTITY INSPECTED: 12'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL	(Y)	N	ASTM A582
CORRECT REF # TO LINK CERT	(Y)	N	427290
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 9 289</u> DATE: <u>16.06.16</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M60617631.000x4.000

PO / BATCH NO.: 1032595 / M134984

DATE: 16.06.14

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 1.00

QUANTITY RECEIVED: 24'

THICKNESS RECEIVED: 1.00

QUANTITY INSPECTED: 24'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL	(Y)	N	AMS QQ A 300/3
CORRECT REF # TO LINK CERT	(Y)	N	1977.7
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
<p>INSPECTED BY: <u>DAS</u> <u>9</u> <u>283</u></p> <p>DATE: <u>16.06.14</u></p>	<p>SIGNED OFF BY: _____</p> <p>DATE: _____</p>

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606176B1.500x2.500

PO / BATCH NO.: 1032595/M184984

DATE: 16-06-14

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 1.500

QUANTITY RECEIVED: 12

THICKNESS RECEIVED: 1.500

QUANTITY INSPECTED: 12

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL	(Y)	N	AMS. QQA-200/3
CORRECT REF # TO LINK CERT	(Y)	N	106741-3-1-A-1
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> <div style="text-align: center;">9-89</div> DATE: <u>16-06-14</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 160617680.500x10.000

PO / BATCH NO.: 032595 / M134984

DATE: 16-06-14

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .500

QUANTITY RECEIVED: 24'

THICKNESS RECEIVED: .500

QUANTITY INSPECTED: 24'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL	(Y)	N	QQA-200/3
CORRECT REF # TO LINK CERT	(Y)	N	20091058
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <div style="text-align: center; margin-top: -10px;">9</div> DATE: <u>16-06-14</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B0.500X5.000

PO / BATCH NO.: P032595 / M134984

DATE: 16-06-14

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .500

QUANTITY RECEIVED: 24

THICKNESS RECEIVED: .500

QUANTITY INSPECTED: 24

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	AMS-QQ-A-200/3
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	106742 2 1-A-1
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: _____ DATE: _____	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO32595**

Purchase Order Date 6/3/2016

PO Print Date 6/3/2016

Page Number 1 of 8

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

JUN 03 2016

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
		Customer Tax #	10127-2607
Ship To Contact		Terms	Net 30
Ship To Phone		Currency	CAD
Ship Via:	VENDOR'S TRUCK	FOB	FCA - (Free Carrier)
Ship Acct:			

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M2024T3S.032	2024-T3 .032 sheet	6/17/2016 Yes 6/17/2016		96.00 sf	\$3.08	\$296.00
	MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209						
	Line Total:						\$296.00
2	M2024T3S.040	2024-T3 .040 sheet	6/9/2016 Yes 6/9/2016		96.00 sf	\$3.63	\$348.00
	MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209						
	Line Total:						\$348.00

PO Instructions: QUOTE PEC ST-934340, PEC ST-935043

Note:

6/3/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO32595**

Purchase Order Date 6/3/2016

PO Print Date 6/3/2016

Page Number 2 of 8

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

3	M2024T3S.063	2024-T3 .063 sheet	6/9/2016	96.00	\$5.32	\$511.00
			Yes	sf		
			6/9/2016			

MATERIAL: 2024-T3 ALUMINUM SHEET
AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037
OR ASTM B209

Line Total: \$511.00

4	M303H0.500	303 HEX BAR .500	6/9/2016	12.00	\$4.35	\$52.20
			Yes	f		
			6/9/2016			

MATERIAL: AISI 303 SS HEX BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$52.20

5	M304B0.625X3.000	304 BAR .625 X 3.00	6/17/2016	12.00	\$22.07	\$264.88
			Yes	f		
			6/17/2016			

MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS
AS PER ASTM A276 OR ASTM A240

NOTE: AISI 303 NOT ACCEPTABLE

PO Instructions: QUOTE PEC ST-934340, PEC ST-935043

Note:

6/3/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO32595

Purchase Order Date 6/3/2016

PO Print Date 6/3/2016

Page Number 3 of 8

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

					Line Total:	\$264.88	
6	M304R0.375	304 ROUND BAR 0.375	6/9/2016	24.00	✓ f	\$1.88 \$45.00	
			Yes				
			6/9/2016				
MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276							
(NOTE: AISI 303 NOT ACCEPTABLE)							
					Line Total:	\$45.00	
7	M304R0.4375	304 ROUND BAR 0.4375	6/9/2016	12.00	✓ f	\$3.75 \$45.00	
			Yes				
			6/9/2016				
MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276							
(NOTE: AISI 303 NOT ACCEPTABLE)							
					Line Total:	\$45.00	
8	M304R0.750	304 SS Roundbar .750	6/9/2016	24.00	✓ f	\$3.90 \$93.60	
			Yes				
			6/9/2016				
MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276							
(NOTE: AISI 303 NOT ACCEPTABLE)							

PO Instructions: QUOTE PEC ST-934340, PEC ST-935043

Note:

6/3/2016

8/16-6-8



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO32595**

Purchase Order Date 6/3/2016

PO Print Date 6/3/2016

Page Number 4 of 8

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444
Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

9	M6061T6B0.375X01.000	6061T6 BAR .375 x 1.00	6/9/2016 Yes 6/9/2016	24.00 f	\$1.05	\$25.21
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MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$93.60

10	M6061T6B0.500X05.000	6061-T6 Bar .500 x 5.00	6/9/2016 Yes 6/9/2016	24.00 f	\$7.05	\$169.20
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MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$25.21

Line Total: \$169.20

PO Instructions: QUOTE PEC ST-934340, PEC ST-935043

Note:

6/3/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO32595**

Purchase Order Date 6/3/2016

PO Print Date 6/3/2016

Page Number 5 of 8

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA (Free Carrier)

11	M6061T6B0.500X10.000	6061-T6 Bar .500 x 10.00	6/9/2016	24.00	\$14.10	\$338.40
			Yes	f		
			6/9/2016			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

DAS
9
9-89

Line Total: \$338.40

12	M6061T6B0.750X01.500	6061-T6 Bar .750 X 1.50	6/9/2016	12.00	\$3.13	\$37.60
			Yes	f		
			6/9/2016			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

DAS
9
9-89

Line Total: \$37.60

13	M6061T6B0.750X02.000	6061-T6 Bar .750 x 2.00	6/9/2016	12.00	\$4.31	\$51.70
			Yes	f		
			6/9/2016			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

8/16-6-8

PO Instructions: QUOTE PEC ST-934340, PEC ST-935043

Note:

6/3/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO32595**

Purchase Order Date 6/3/2016

PO Print Date 6/3/2016

Page Number 6 of 8

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

14 M6061T6B1.000X04.000 ✓ 6061-T6 Bar 1.00 x 4.00 6/9/2016
Yes
6/9/2016

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR ~~AMS-QQ-A-200/8~~ OR AMS 4160 OR ASTM B211 OR
ASTM B221

DAS
9
9-89

24.00 ✓
f \$11.06 \$265.55

Line Total: \$51.70

15 M6061T6B1.500X02.500 ✓ 6061-T6 Bar 1.50 x 2.50 6/9/2016
Yes
6/9/2016

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR ~~AMS-QQ-A-225/8~~ OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR ~~AMS-QQ-A-200/8~~ OR AMS 4160 OR ASTM B211 OR
ASTM B221

DAS
9
9-89

12.00 ✓
f \$10.38 \$124.55

Line Total: \$265.55

Line Total: \$124.55

PO Instructions: QUOTE PEC ST-934340, PEC ST-935043

Note:

6/3/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO32595

Purchase Order Date 6/3/2016

PO Print Date 6/3/2016

Page Number 7 of 8

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone

Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA (Free Carrier)

16	M6061T6B30000X01.500	6061-T6 Bar 3.00 x 1.50	6/9/2016	12.00	\$12.34	\$148.05
----	----------------------	-------------------------	----------	-------	---------	----------

Yes
6/9/2016
DAS
9
9-89

f

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR ~~AMS-QQ-A-225/8~~ OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR ~~AMS-QQ-A-200/8~~ OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$148.05

17	M7075T6B1.250X07.000	7075-T6 BAR 1.25" X 7.000" ORDER PRE CUT TO 50.00"	6/17/2016	16.67	\$57.02	\$950.40
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Yes
6/17/2016

f

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

NOTE: CUT TO SIZE 4 PCS @ 50" LONG

Line Total: \$950.40

PO Instructions: QUOTE PEC ST-934340, PEC ST-935043

Note:

6/3/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO32595**

Purchase Order Date 6/3/2016

PO Print Date 6/3/2016

Page Number 8 of 8

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

18	M7075T6B5.000X1.000	7075-T6 BAR 5.000" X 1.000"	6/9/2016	8.00	\$46.41	\$371.25
			Yes	f		
			6/9/2016			

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

Line Total: \$371.25

19	71401-45	PROCUREMENT QUALITY CLAUSES	6/9/2016	1.00	\$0.00	\$0.00
			No			
			6/9/2016			

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

Line Total: \$0.00

PO Total: \$4,137.59

PO Instructions: QUOTE PEC ST-934340, PEC ST-935043

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 2

Change Date: 6/3/2016